IN THE CLAIMS

Please amend the claims as follows.

- 1. (Previously presented) A polymer of Claim 7, wherein said polymer has an average cationic charge density of 2.77 or less units per 100 daltons molecular weight at a pH of from about 4 to about 12.
- 2. (Previously presented) A polymer according to Claim 1, wherein said polymer is a suds/foam stabilizer having an average cationic charge density from about 0.01 to about 2.75 units per 100 daltons molecular weight at a pH of from about 4 to about 12.
- 3. (Previously presented) A polymer according to Claim 1, wherein said polymer has a hydroxyl group density of from about 0.5 or less as measured by the Hydroxyl Group Density Equation.
- 4. (Previously presented) A polymer according to Claim 1, wherein said polymer comprises:
 - iv) units capable of having an anionic charge at a pH of from about 4 to about 12;
 - v) units capable of having an anionic charge and a cationic charge at a pH of from about 4 to about 12;
 - vi) units having no charge at a pH of from about 4 to about 12; and
 - vii) mixtures of units (iv), (v), (vi), and (vii).
 - 5. (Cancelled).
- 6. (Currently amended) A polymer according to Claim 1, wherein said polymer has an average cationic charge density of about 0.75 to about 2.25 units per 100 daltons molecular weight at a pH of about 4 to about 12 and a <u>weight average</u> molecular weight of about 10,000 to about 100,000 daltons.

7. (Currently amended) A polymer consisting essentially of:

A. at least one cationic monomeric unit A, capable of having a cationic charge at a pH in the range of from about 4 to about 12, having a Formula I:

$$-CH_2$$
 $-CH_2$
 $-CH_$

wherein

R¹ is H or an alkyl having 1 to 10 carbon atoms,

R² is a moiety selected from the group consisting of

$$\begin{array}{c} \begin{array}{c} \\ R^3 \\ (CH_2)_C \end{array} & \begin{array}{c} \\ C=O \end{array} & \begin{array}{c} \\ \\ C=O \end{array} \\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \end{array} \end{array} , \text{ and } \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \end{array} \\ R^{13} \end{array} ,$$

wherein R³ is selected from the group consisting of

—O— , —
$$\stackrel{O}{\overset{\parallel}{\sqsubseteq}}$$
 , and — $\stackrel{O}{\overset{\parallel}{\sqsubseteq}}$

a is an integer from 0 to 16; b is an integer from 2 to 10; c is an integer from 2 to 10; d is an integer from 1 to 100;

R⁴ and R⁵ are independently selected from the group consisting of -H, and

$$-R^8-N$$

R⁸ is independently selected from the group consisting of a bond and an alkylene having 1 to 18 carbon atoms;

 R^9 and R^{10} are independently selected from the group consisting of -H, alkyl having 1 to 10 carbon atoms;

 R^{12} and R^{13} are independently selected from the group consisting of H and alkyl having from 1 to 10 carbon atoms;

wherein x is an integer from 2 to 10;

B. at least one monomeric unit B selected from the group consisting of:

$$\{ \bigcup_{O} \{ O \}_{n \mid H}$$

wherein n is an integer from 1 to 50; and

C. optionally at least one monomeric unit C selected from the group consisting of:

wherein R²⁶ is -H or CH₃

wherein the <u>weight average</u> molecular weight of the polymer is in the range of about 10,000 to about 300,000 daltons.

- 8. (Original) The polymer of Claim 7, wherein said polymer comprises at least one said monomeric unit A, at least one said monomeric unit B and at least one said monomeric unit C.
- 9. (Original) The polymer of Claim 7, wherein said at least one monomeric unit A is selected from the group consisting of:

wherein R³⁰ is H or -CH₃,

wherein R^{31} is a bond or R^{32} and R^{33} are $-CH_3$ or $-C_2H_5$.

10. (Previously Presented) The polymer of Claim 9, wherein said polymer is a terpolymer,

said at least one monomeric unit B is selected from the group consisting of:

wherein R³⁸ is H and

 R^{40} is selected from the group consisting of $-CH_2CH_2-OH$ and

$$-CH_2$$
 $-CH$ $-CH_3$,

and

said terpolymer comprising said at least one monomeric unit C,

wherein the molar ratio of said monomeric unit A: monomeric unit B: monomeric unit C is 1 to 9:1 to 6 respectively.

11. (Original) The polymer of Claim 7, wherein the at least one monomeric unit B has the formula:

$$\begin{array}{c}
-\left(\text{CH}_2-\text{CH} \xrightarrow{}\right) \\
\text{C=O} \\
\text{O} \\
\left(\text{CH}_2\text{CH}_2\text{O}\right)_{\overline{q}}-\text{H}
\end{array}$$

wherein q ranges from 1 to 12.

12. (Original) The polymer of Claim 11, wherein the polymer is a terpolymer, said at least one monomeric unit A is selected from the group consisting of:

$$-(CH_2 - CH_2 - CH_2$$

wherein R¹⁰ is H or CH₃,

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 R^{11} is a bond or L^{0} , and L^{12} and L^{13} are L^{13} are L^{13} are L^{13} , and said monomer comprises said at least one monomeric unit L^{13} .

13. (Previously presented) The polymer of Claim 12, wherein the molar ratio of monomeric unit

A: monomeric unit B: monomeric unit C ranges from 1 to 9:1 to 3:9 to 3 respectively.

14. (Withdrawn) The polymer of Claim 7, wherein said at least one monomeric unit A has a formula selected from the group consisting of:

15. (Withdrawn) The polymer of Claim 7, wherein said at least one monomeric unit A has a formula selected from the group consisting of:

$$O \longrightarrow N - (CH_2)_2O \longrightarrow O$$

- 16. (Cancelled)
- 17. (Original) The polymer of Claim 7, selected from the group consisting of: poly(HEA-co-DMAM-co-AA) terpolymer, poly(HPA-co-DMAM-co-AA) terpolymer, and poly(PEG-acrylate-co-DMAM-co-AA) terpolymer.
- 18. (Previously Presented) The polymer of Claim 7, is poly(HEA-co-DMAM) copolymer.
- 19. (Withdrawn) A method for cleaning hair or skin comprising applying an effective amount of a cleaning composition comprising the polymer of Claim 1 and at least one detersive surfactant to hair or skin in need of cleaning, provided that a 10% aqueous solution of said composition has a pH from about 4 to about 9.
- 20. (Withdrawn) The method of Claim 19, wherein said composition further comprises at least one member of the group consisting of a pearlizing agent, a silicone hair conditioning agent, and an antidandruff ingredient.

- 21. (Withdrawn) The method of Claim 20, wherein said composition comprises:
 - a) said pearlizing agent
 - b) a nonionic surfactant
 - c) an amphoteric surfactant
 - d) a glycol emulsifier
 - e) water.
- 22. (Withdrawn) The method of Claim 20, wherein said composition comprises at least one amphoteric surfactant and said amphoteric surfactant comprises at least one member of the group consisting of:

the alkali salts of alkyl amphodipropionates, alkyl amphodiacetates, alkyl amphoglycinates, alkyl amphopropyl sulfonates and alkyl amphopropionates wherein alkyl represents an alkyl group having 6 to 20 carbon atoms.

- 23. (Withdrawn) The method of Claim 22, wherein in said at least one amphoteric surfactant the alkyl group is derived from coconut oil or is a lauryl group.
- 24. (Withdrawn) A method for cleaning hair or skin comprising applying an effective amount of a cleaning composition comprising the polymer of Claim 5 and at least one surfactant to hair or skin in need of cleaning.
 - 25. (Withdrawn) A composition for cleaning hair or skin comprising: the polymer of Claim 1,

at least one detersive surfactant, and at least one member of the group consisting of a pearlizing agent, a silicone hair conditioning agent, and an antidandruff ingredient, provided that a 10% aqueous solution of said composition has a pH from about 4 to about 12.

(Withdrawn) A composition for cleaning hair or skin comprising:the polymer of Claim 7,at least one surfactant, and at least one member of the group consisting of a

pearlizing agent, a silicone hair conditioning agent, and an antidandruff ingredient.

- 27. (Withdrawn) The composition of Claim 26, wherein said silicone compound is an alpha, omega-trimethylsilyl-polydimethylsioloxane having a viscosity at 25°C of at least 25 centistokes and less than 60,000 centistokes.
- 28. (Withdrawn) A method for washing a fabric article in a washing medium comprising:

applying an effective amount of a laundry cleaning composition comprising the polymer of Claim 1 and at least one detergent surfactant to a fabric article in need of cleaning.

- 29. (Withdrawn) The method of Claim 28, wherein said composition washes a colored fabric article.
- 30. (Withdrawn) The method of Claim 28, wherein said composition comprises at least one member of the group consisting of an aminosilione, a Gemini surfactant, a detergency builder, a bleach, an activator for percompound bleach, a soil suspending agent, a soil antiredeposition agent, a foam suppressant agent and a fabric softener.
- 31. (Withdrawn) The method of Claim 28, wherein said composition comprises a foam suppressant agent.
- 32. (Withdrawn) A method for washing a fabric article in a washing medium comprising:

applying an effective amount of a laundry cleaning composition the polymer of Claim 7 and at least one detergent surfactant to a fabric article in need of cleaning.

- 33. (Withdrawn) A detergent composition for washing a fabric article comprising: the polymer of Claim 1;
 - at least one detergent surfactant; and
 - at least one member of the group consisting of an aminosilicone, a Gemini

surfactant, a detergency builder, a bleach, an activator for percompound bleach, a soil suspending agent, a soil antiredeposition agent, a foam suppressant agent and a fabric softener;

provided that a 10% aqueous solution of said detergent composition has a pH of from about 4 to about 12.

- 34. (Withdrawn) A method for extinguishing fire comprising applying a foam to a fire, wherein the foam comprises a foaming agent and a polymer of Claim 1.
- 35. (Withdrawn) A method for treating agricultural substrate selected from the group consisting of plants, soil or seed comprising,

applying to the substrate a foam comprising at least one agricultural chemical selected from the group consisting of a herbicide, a pesticide, and a fungicide, a foaming agent and a polymer of Claim 1.

- 36. (Withdrawn) A method comprising, injecting into a subterranean formation, a foam comprising a foaming agent and a polymer of Claim 1.
- 37. (Withdrawn) A method for shaving hair from skin comprising applying foam shaving cream to the skin, said shaving cream comprising a foaming agent and a polymer of Claim 1.
- 38. (Withdrawn) A method for shaving hair from skin comprising applying a shaving gel to the skin, said gel comprising a foaming agent and a polymer of Claim 1.
- 39. (Withdrawn) A method comprising applying a dephiliatory foam to skin, said foam comprising a foaming agent and a polymer of Claim 1.
- 40. (Withdrawn) A method of cleaning hard bathroom surfaces comprising applying to said surfaces a foam cleaner comprising a foaming agent and a polymer of Claim 1.
 - 41. (Withdrawn) A process for making paper comprising aiding retention of titanium

dioxide on the paper during the paper making comprising treating the paper with an aqueous solution comprising titanium dioxide and a polymer of Claim 1.

- 42. (Cancelled)
- 43. (Previously Presented) The polymer of Claim 7, consisting of:
- A. said at least one cationic monomeric unit A,
- B. at least one monomeric unit B; and
- C. optionally said at least one monomeric unit C.
- 44. (Currently amended) A polymer according to Claim 7, wherein said polymer has a weight average molecular weight of about 35,000 to about 300,000 daltons.
- 45. (Previously presented) A polymer according to Claim 7, wherein the molar ratio of said monomeric unit A: monomeric unit B: monomeric unit C is 1 to 9 monomeric unit A: 1 to 9 monomeric unit B: 1 to 6 monomeric unit C.
- 46. (Previously presented) A polymer according to Claim 7, wherein the molar ratio of said monomeric unit A: monomeric unit B: monomeric unit C is 1 to 9 monomeric unit A: 1 to 9 monomeric unit B: 1 to 3 monomeric unit C.
- 47. (Previously presented) A polymer according to Claim 7, wherein the molar ratio of said monomeric unit A: monomeric unit B: monomeric unit C is 1 to 3 monomeric unit A: 3 to 9 monomeric unit B: 0 to 1 monomeric unit C.
- 48. (Previously presented) A terpolymer according to claim 47, wherein monomeric unit A is 2-(dimethylamino)ethyl methacrylate, monomeric unit B is selected from the group consisting of 2-hydroxyethyl acrylate, hydroxypropyl acrylate and poly(ethylene glycol) acrylate and monomeric unit C is acrylic acid.